

## DIGITAST Microminiature SPDT, Key Switches



### Features/Benefits

- **High reliability/long life**
- **Designed for low level switching**
- **Ready to implement on PCB**
- **Latching function available**
- **Several button options**
- **RoHS compliant and compatible**

## Typical Applications

- **Medical**
- **Instrumentation**
- **Industrial electronics**
- **Audio electronics**

## Construction

FUNCTION: momentary or push-push  
CONTACT ARRANGEMENT: 1 change over contact SPDT, NO  
MODE OF SWITCHING: Non-shorting  
DISTANCE BETWEEN BUTTON CENTERS:  
    HORIZONTAL MINIMUM: 12,7 (0.500) or 17,78 (0.700)  
    VERTICAL MINIMUM: 17,78 (0.700)  
TERMINALS: PC pins  
MOUNTING: Soldering, centering pins

## Mechanical

TOTAL TRAVEL:  $\leq 3$  (.0018)  
SWITCHING TRAVEL: 1,5 (0.0591)  
LATCHING TRAVEL: 1,8 (0.0709)  
OPERATING FORCE: 1.5 +/- 0.5 N (150 +/- 50 grams)

## Process

**SOLDERABILITY:** Max. soldering time and temperature: 5 s at 260°C

## Electrical

SWITCHING POWER MAX.: 240 mW DC  
SWITCHING VOLTAGE MAX.: 24 V DC  
SWITCHING CURRENT MAX.: 10 mA DC  
CARRYING CURRENT AT 20°C (push-push version): 100 mA  
DIELECTRIC STRENGTH (50 Hz, 1 min): 500 V  
OPERATING LIFE with or without max. switching power  
    Momentary:  $\geq 5 \times 10^6$  operations  
    Push-push:  $\geq 5 \times 10^5$  operations  
CONTACT RESISTANCE: Initial  $\leq 50 \text{ m}\Omega$   
    After  $5 \times 10^6$  operations:  $\leq 100 \text{ m}\Omega$   
INSULATION RESISTANCE:  $\geq 10^{10} \Omega$   
CAPACITANCE at  $f = 10 \text{ kHz}$ :  $\leq 0.8 \text{ pF}$   
BOUNCE TIME:  $\leq 2.5 \text{ ms}$   
    Operating speed 400 mm/s (15.75/s)

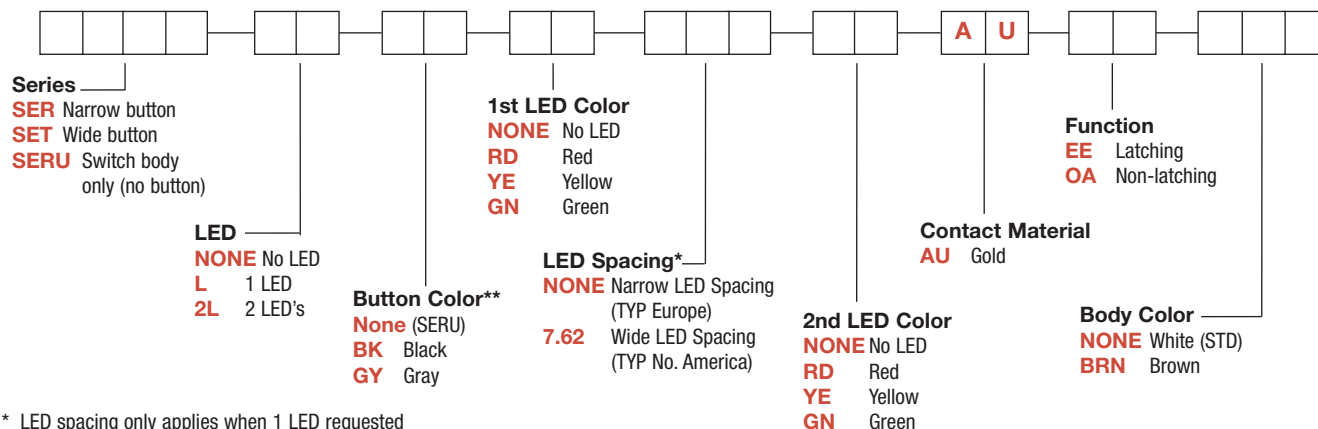
## Environmental

OPERATING TEMPERATURE: -25°C to 85°C.

## How To Order

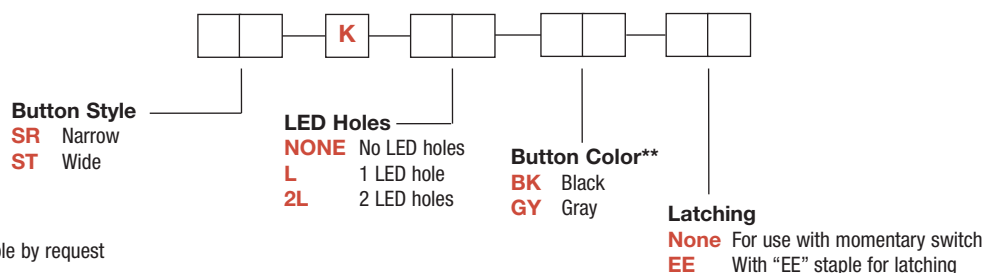
Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.

## Switch



\* LED spacing only applies when 1 LED requested

## Button

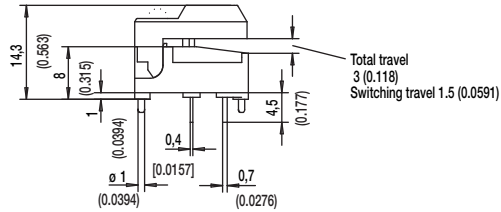
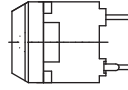
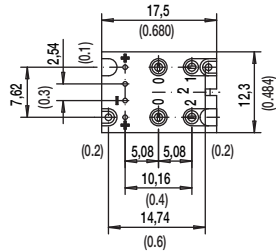


\*\* Additional button colors available by request

# DIGITAST Microminiature SPDT, Key Switches

DESIGNATION

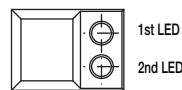
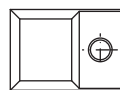
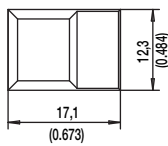
## SER NARROW BUTTON



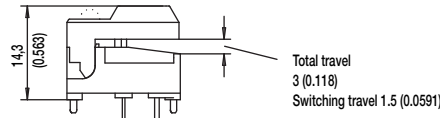
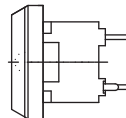
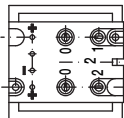
SER

SERL

SER2L



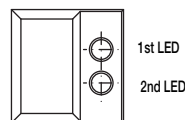
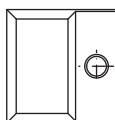
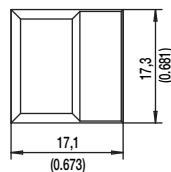
## SET WIDE BUTTON



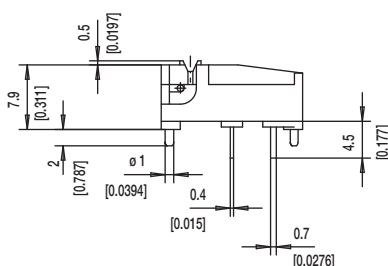
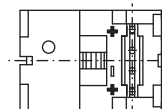
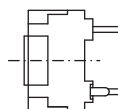
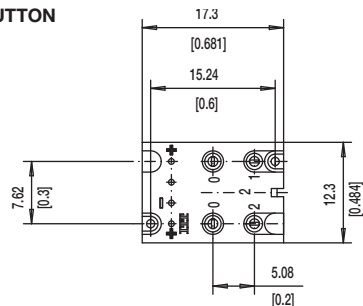
SET

SETL

SET2L



## SERU NO BUTTON



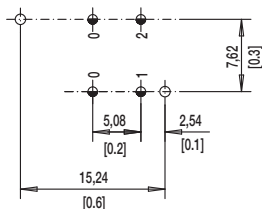
Dimensions are shown: mm (inch)  
Specifications and dimensions subject to change

# DIGITAST

## Microminiature SPDT, Key Switches

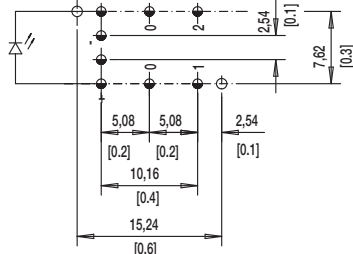
### LED

#### NONE NO LED

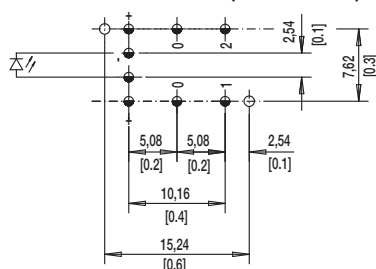


#### L 1 LEDs

7.62 mm Spacing (TYP No. America)

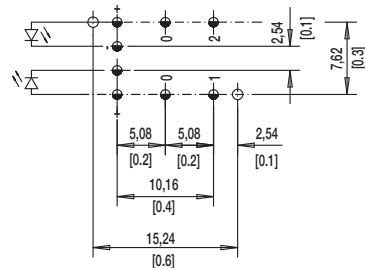


NARROW SPACING (TYP EUROPE)



TOP VIEW OF PCB

#### 2L 2 LEDs



⌀ 1.0±0.1 (0.0394±0.00349)

⌀ 1.1±0.05 (0.0433±0.00197)

### BUTTON COLOR

**BK** BLACK

**GY** GRAY

Other button colors available by request [red (RD), green (GN), white (WH), yellow (YE), blue (BU), orange (OG)].

### LED COLOR

OPTION CODE	COLOR
<b>NONE</b>	Models without LED
<b>RD</b>	Red
<b>GN</b>	Green
<b>YE</b>	Yellow

### CONTACT MATERIAL

OPTION CODE	MATERIAL
<b>AU</b>	Gold

**NOTE:** For the latest information regarding RoHS compliance, please go to: [www.ittcannon.com/rohs](http://www.ittcannon.com/rohs).

### FUNCTION

OPTION CODE	COLOR	SCHEMATIC
<b>OA</b>	Momentary	
<b>EE</b>	Push-Push	



First Angle  
Projection

Dimensions are shown: mm (inch)  
Specifications and dimensions subject to change